

PCT REQUEST

Original (for SUBMISSION)

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.163)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	United States Patent and Trademark Office (USPTO) (RO/US)
0-7	Applicant's or agent's file reference	126457.02102
I	Title of Invention	PROCESS FOR REMOVING MICROBUBBLES FROM A LIQUID
II	Applicant	
II-1	This person is	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	MYKROLIS CORPORATION
II-5	Address	129 Concord Road Billerica, MA 01821 United States of America
II-6	State of nationality	US
II-7	State of residence	US
II-8	Telephone No.	(978) 436-6500
II-9	Facsimile No.	(978) 436-6739
III-1	Applicant and/or inventor	
III-1-1	This person is	applicant and inventor
III-1-2	Applicant for	US only
III-1-4	Name (LAST, First)	YEN, Larry
III-1-5	Address	10 Pomeroy Road Andover, 01810 United States of America
III-1-6	State of nationality	US
III-1-7	State of residence	US

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III-2	Applicant and/or inventor	
III-2-1	This person is	applicant and inventor
III-2-2	Applicant for	US only
III-2-4	Name (LAST, First)	DUFFNER, Jay
III-2-5	Address	169A Park Avenue Arlington, MA 02476 United States of America
III-2-6	State of nationality	US
III-2-7	State of residence	US
III-3	Applicant and/or inventor	
III-3-1	This person is	applicant and inventor
III-3-2	Applicant for	US only
III-3-4	Name (LAST, First)	LY, Saksatha
III-3-5	Address	154 Maple Street Lexington, MA 02420 United States of America
III-3-6	State of nationality	US
III-3-7	State of residence	US
IV-1	Agent or common representative; or address for correspondence	
	The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	MILLER, Raymond, A.
IV-1-2	Address	Pepper Hamilton LLP One Mellon Center, 50th Floor 500 Grant Street Pittsburgh, 15219 United States of America
IV-1-3	Telephone No.	412.454.5000
IV-1-4	Facsimile No.	412.281.0717
IV-1-5	e-mail	docketingpgh@pepperlaw.com
IV-1-6	Agent's registration No.	42,891
V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	

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VI-1	Priority claim of earlier national application		
VI-1-1	Filing date	27 January 2004 (27.01.2004)	
VI-1-2	Number	60/539,409	
VI-1-3	Country	US	
VI-2	Priority document request		
	The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1	
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	1	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	1	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	

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VIII-2-1	Declaration: Entitlement to apply for and be granted a patent Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name (LAST, First)	in relation to this international application MYKROLIS CORPORATION is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1(i v)		an assignment from YEN, Larry to MYKROLIS CORPORATION, dated 11 January 2005 (11.01.2005)
VIII-2-1(i v)		an assignment from DUFFNER, Jay to MYKROLIS CORPORATION, dated 11 January 2005 (11.01.2005)
VIII-2-1(i v)		an assignment from LY, Saksatha to MYKROLIS CORPORATION, dated 11 January 2005 (11.01.2005)
VIII-2-1(i x)	This declaration is made for the purposes of:	all designations except the designation of the United States of America

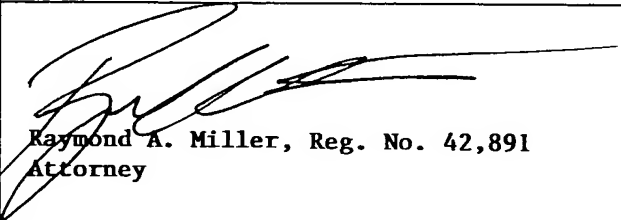
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VIII-3-1	Declaration: Entitlement to claim priority Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)) Name	in relation to this international application MYKROLIS CORPORATION is entitled to claim priority of earlier application No. 60/539,409 by virtue of the following:
VIII-3-1(i v)		an assignment from YEN, Larry to MYKROLIS CORPORATION, dated 11 January 2005 (11.01.2005)
VIII-3-1(i v)		an assignment from DUFFNER, Jay to MYKROLIS CORPORATION, dated 11 January 2005 (11.01.2005)
VIII-3-1(i v)		an assignment from LY, Saksatha to MYKROLIS CORPORATION, dated 11 January 2005 (11.01.2005)
VIII-3-1(i x)	This declaration is made for the purposes of:	all designations

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IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	6	✓
IX-2	Description	16	-
IX-3	Claims	3	-
IX-4	Abstract	1	✓
IX-5	Drawings	0	-
IX-7	TOTAL	26	
	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-17	PCT-SAFE physical media	-	✓
IX-18	other	Postcard Receipt	
IX-18	other	PCT Transmittal	
IX-19	Figure of the drawings which should accompany the abstract	0	
IX-20	Language of filing of the international application	English	
X-1	Signature of applicant, agent or common representative	 Raymond A. Miller, Reg. No. 42,891 Attorney	
X-1-1	Name		
X-1-2	Name of signatory		
X-1-3	Capacity		

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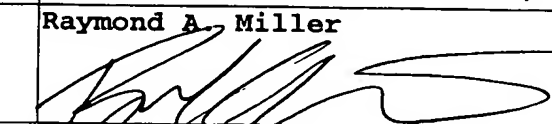
10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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PCT (ANNEX - FEE CALCULATION SHEET)Original (for **SUBMISSION**)

(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only	
0-1	International Application No.	
0-2	Date stamp of the receiving Office	
0-4	Form PCT/RO/101 (Annex)	
0-4-1	PCT Fee Calculation Sheet	
	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.163)
0-9	Applicant's or agent's file reference	126457.02102
2	Applicant	MYKROLIS CORPORATION
12	Calculation of prescribed fees	
		fee amount/multiplier Total amounts (USD)
12-1	Transmittal fee T	\Rightarrow 300
12-2-1	Search fee S	\Rightarrow 1920
12-2-2	International search to be carried out by	EP
12-3	International filing fee (first 30 sheets) i1	1134
12-4	Remaining sheets	0
12-5	Additional amount (X)	0
12-6	Total additional amount i2	0
12-7	i1 + i2 =	1134
12-12	EASY Filing reduction R	-81
12-13	Total International filing fee (i-R) I	\Rightarrow 1053
12-14	Fee for priority document	
	Number of priority documents requested	1
12-15	Fee per document (X)	20
12-16	Total priority document fee: P	\Rightarrow 20
12-17	TOTAL FEES PAYABLE (T+S+I+P)	\Rightarrow 3293
12-19	Mode of payment	cheque
12-20	Deposit account instructions	
	The receiving Office	United States Patent and Trademark Office (USPTO) (RO/US)
12-20-2	Authorization to charge any deficiency or credit any overpayment in the total fees indicated above	<input checked="" type="checkbox"/>
12-21	Deposit account No.	50-0436
12-22	Date	11 January 2005 (11.01.2005)
12-23	Name and signature	Raymond A. Miller 

A process is provided for removing microbubbles from a liquid by filtration with a composite porous membrane which is formed from a porous polymeric membrane having an average pore size between about 0.01 and 0.03 microns on which is directly coated a cross-linked polymer derived from N, N-methylenebisacrylamide (MBAM) optionally containing dimethylacrylamide (DMAM).